

- Fig. 11. *Colpidium putrinum*,  $\times 300$ .  
 Fig. 12. *Colpidium striatum*,  $\times 450$ .  
 Fig. 13. *Diplomastax frontata*. Ventral,  $\times 250$ .  
 Fig. 14. *Diplomastax frontata*. Reproductive fission.  
 Fig. 15. *Histiobalantium agile*. Dorsal,  $\times 300$ .  
 Fig. 16. *Histiobalantium agile*. Lateral,  $\times 450$ .  
 Fig. 17. *Rhabdostyla pusilla*,  $\times 500$ .  
 Fig. 18. *Vorticella Lemme*,  $\times 360$ .  
 Fig. 19. *Balanitoxoon agile*,  $\times 810$ .  
 Fig. 20. *Uroleptus Sphagni*,  $\times 135$ .  
 Fig. 21. *Vaginicola ampulla*,  $\times 137$ .

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XII.—*Descriptions of Sponges from the Neighbourhood of Port Phillip Heads, South Australia, continued.* By H. J. CARTER, F.R.S. &c.

[Continued from p. 53.]

Fam. 2. **SUBERITIDA.**

Group 11. **SUBERITINA** (new group).

(Proposed instead of the original groups 10, 11, and 12, viz. *Cavernosa*, *Compacta*, *Laxa*, and the subsequently added group, viz. *Subcompacta*, which the group *Suberitina* is intended to include as subdivisions.)

*SPIRASTRELLA*, Sdt. (Spongf. Küste v. Algier, 1868, p. 17, taf. iii. fig. 8).

*General Observations.*

This genus is chiefly characterized by its spiculation, consisting of a pin-like skeletal and spinispirular flesh-spicule, the latter, like most flesh-spicules, congregated more or less thickly into a layer on the surface; hence Schmidt placed it among his "*Corticata*" (!), our *Pachytragida*. But inasmuch as there are two kinds, if not species, of this sponge which possess the same form of spiculation, it becomes necessary to seek in the size of their spicules, their structures, and their adult forms respectively for their differences. Thus while the spicules in the original species, viz. *Spirastrella cunctatrix*, Sdt., may be set down as longer and thinner, those of the other kind or variety, which we shall term *Spirastrella cunctatrix*, var. *robusta*, are shorter and stouter (a fact of general occurrence too with adult spicules of all kinds even in the same specimen, as I have often stated).